

ABSTRACT

An edge directed demosaicing algorithm for determining an edge direction from an input color filter array (CFA) sampled image is disclosed. Aspects of the present invention

5 include calculating for a current missing green pixel, interpolation errors in an East-West (EW) direction at known neighboring green pixels, and averaging the EW interpolation errors to obtain an EW error. Interpolation errors are also calculated for the current missing green pixel in a North-South (NS) direction at known neighboring green pixels, and the NS interpolation errors are averaged to obtain a NS error. An EW or NS direction

10 indicated by a minimum of the EW error and the NS error is then selected as the edge direction.